**Health & Fitness Journal Portal**

Goal

Design and implement a solution to solve the given requirement/problem statement. Implement the system's services and applications.

Focus on only developing an MVP.

Note - The project is scoped to be simple and reasonable to enable you to demonstrate your coding and design skills.

Requirements

The system allows publishing and subscribing to Health Journals in a secure way. The system implements the following specifications.

1. For publishers
   1. Web portal to upload and manage list of health and fitness Journals.
   2. Supported format for health Journal - Pdf
2. For public users
   1. Web portal to find and subscribe to health Journal.
   2. Once subscribed the users are able to browse and read health Journals online.

Must Have

The following points are must have for this implementation.

1. Use Visual Studio / Visual Studio Code IDE and SQL database.
2. Usage of .Net technology stack for development along with any open source technologies.
3. Do not use any proprietary technologies or tools that are not available for evaluation.
4. Mandatory to use in the back-end : REST API on a MVC framework, along with an ORM
5. Medium coverage of automated tests.
6. Secure the applications and services.
7. Solution must compile
8. All Unit Test cases should pass.

Note - Assume missing/unclear requirements to fill in the gaps in the specifications.

Submission

Create github account if you do not have one, By default it will provide you with public repository. Upload the code and supporting documents in following structure on github.

**Do not upload any dlls or the bin/obj folder/packages.** Readme.txt should clearly specify how to restore dependencies.

**Share the link to github repository which contains the following structure**

* ProjectName
* ProjectName \Readme (.txt file)
  + Assumptions made if any.
  + Instructions to install and configure prerequisites or dependencies, if any. Only use the packages which are free to install / evaluate.
  + Database scripts creation/data insertion step by step instructions (if required)
  + Instructions to configure and prepare the source code to build and run properly.
* ProjectName \Design*(pdf or .doc, etc.)*
  + Architecture diagrams describing data flow and interaction between components.
  + Explain the design patterns involved and reasons for using it.
* ProjectName \Database\*(Database SQL scripts used for setting up the database)*
  + Create SQL script files to create the database (if required), its schema, or any seed data used for testing.
* ProjectName \Code\*(this folder contains the complete source code)*

**Also submit a small ppt/doc to describe your project/design**

Evaluation criteria

1. Efficacy of your submission: fundamentally how well your solution is able to achieve the assignment objective and solve the stated problem.
   1. Design quality – Design documents completeness and clarity. Interaction/data flow between different components.
   2. Code quality – Modularity, Test cases, Exception Handling
   3. Docs and demo quality.